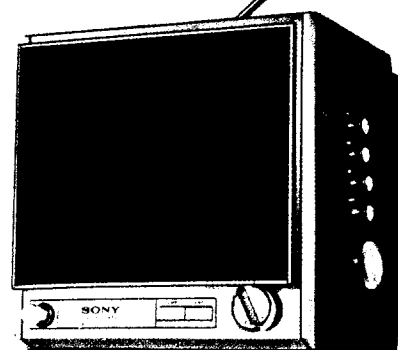
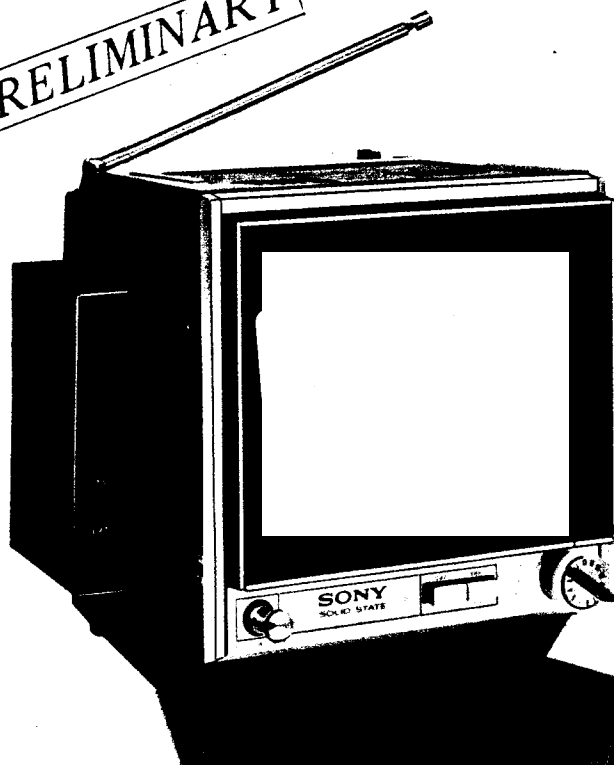




Set using ISO screws

CVM-90UB

PRELIMINARY



SPECIFICATIONS

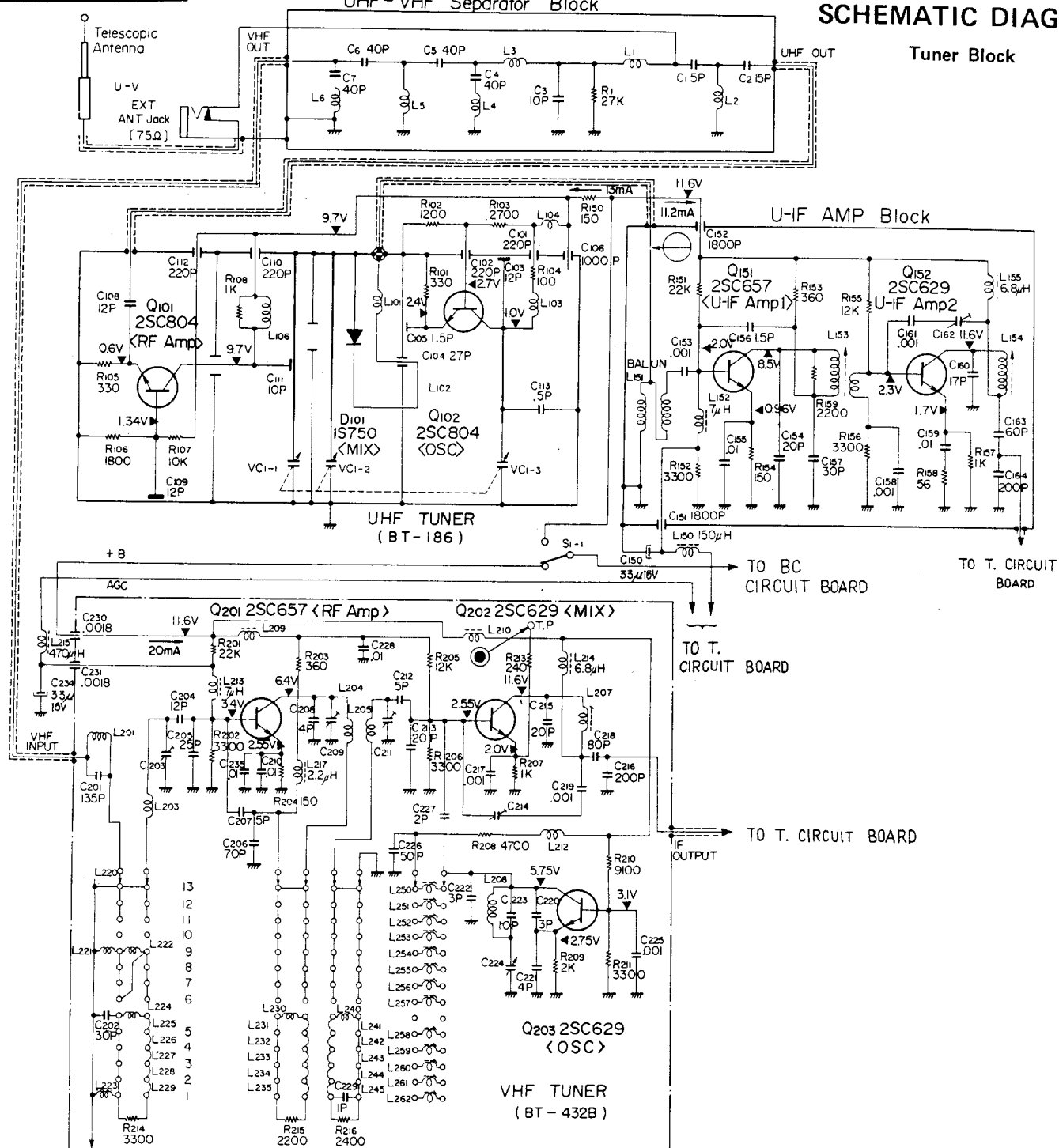
Picture tube:	9" 90° deflection aluminized screen; 230DB4	REC OUT jack:	Impedance 5 k Ω , level -50 dB
Channel coverage:	British VHF channels 1-13 British UHF channels 21-68	Video signal input:	8p connector : 1 to 1.4 Vp-p 75 Ω , unbalanced
Antenna system:	Built-in telescopic antenna Terminal for 75 Ω external antenna		UHF connector: 1 to 1.4 Vp-p 75 Ω , unbalanced
Tuner:	Disc turret type for VHF band (BT-432B) Continuous tuning type for UHF band (BT-186)	Video signal output:	8p connector : 1.0 $\pm$ 0.2 Vp-p 75 Ω , unbalanced
IF circuit:	VHF (405 lines) 3 stages with 4 stagger tuned elements Video bandwidth; 2.0 MHz/-3 dB Video IF; 34.65 MHz Sound IF; 38.15 MHz UHF (625 lines) 3 stages with 4 stagger tuned elements Video bandwidth; 3.5 MHz/-3 dB Video IF; 39.5 MHz Sound IF; 33.5 MHz		UHF connector: 1.0 $\pm$ 0.2 Vp-p 75 Ω , unbalanced
Transistors:	37	Audio signal input:	8p connector : 0 dB high impedance, unbalanced
Diodes:	15		Mini jack : 0 dB high impedance, unbalanced
Power rectifier:	1 (selenium)	Audio signal output:	8p connector : 20 dB high impedance, unbalanced
High voltage rectifier:	1 (selenium)		Mini jack : 0 dB high impedance, unbalanced
Sound system:	VHF (405 lines) Separate carrier system (a-m) UHF (625 lines) 6.0 MHz intercarrier system (fm) Power amplifier; OTL system Power output; 300 mW Speaker; 2 3/4" x 4" oval type 40 Ω	Automatic controls:	Forward AGC (tuner & VIF) Reverse AGC (SIF) and signal pulse AFC
		Power requirements & consumptions:	AC 240, 210 volts, 50 Hz 18.5W DC 12 volts 12.5W
		Dimensions:	10" (W) x 10 1/2" (H) x 9 5/8" (D) (249 mm x 266 mm x 245 mm)
		Weight:	13 lb 3 oz (6 kg)

1745

SONY®
SERVICE MANUAL

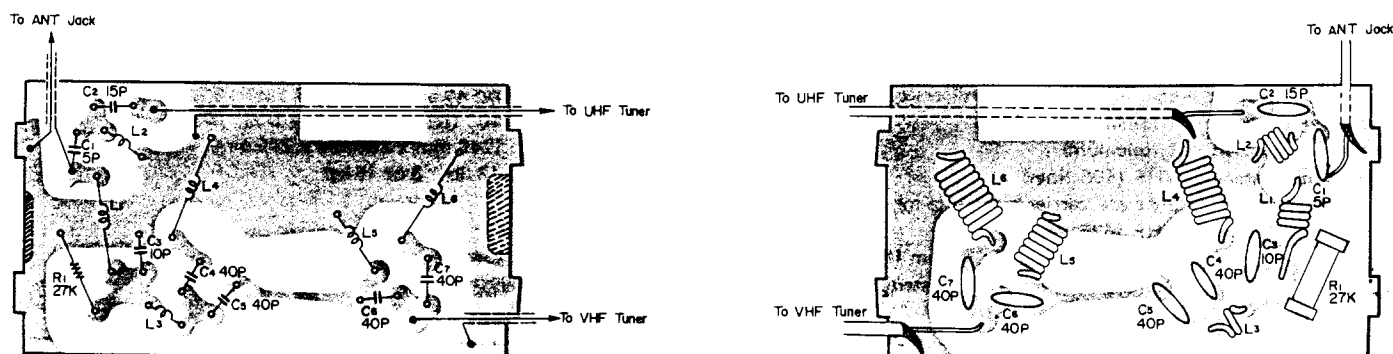
UHF - VHF Separator Block

SCHEMATIC DIAGRAM



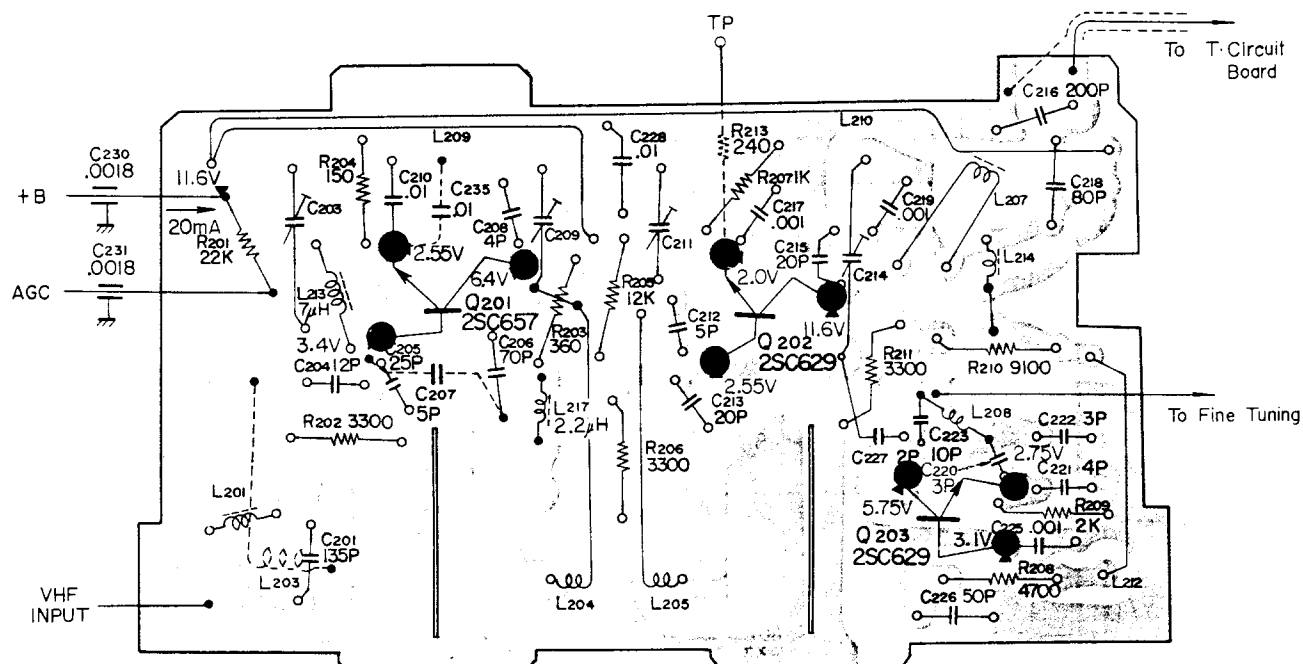
MOUNTING DIAGRAM

UHF-VHF Separator

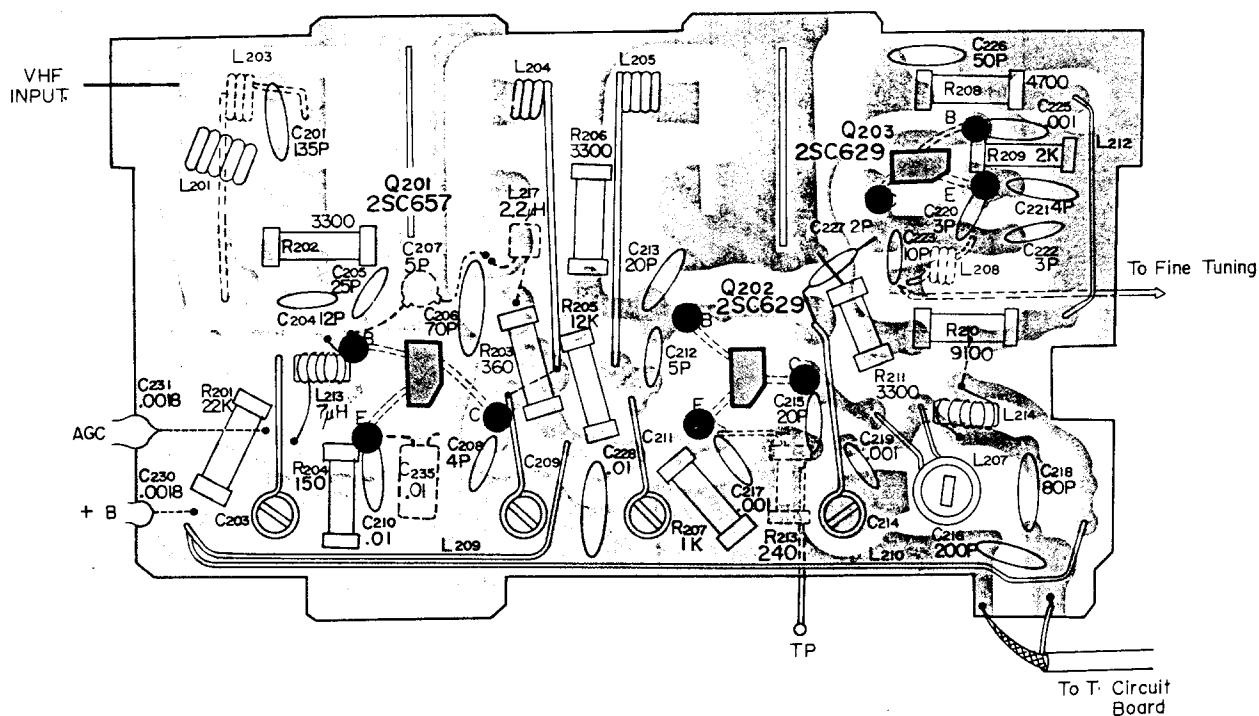


MOUNTING DIAGRAM

VHF Tuner Block
— Conductor Side —



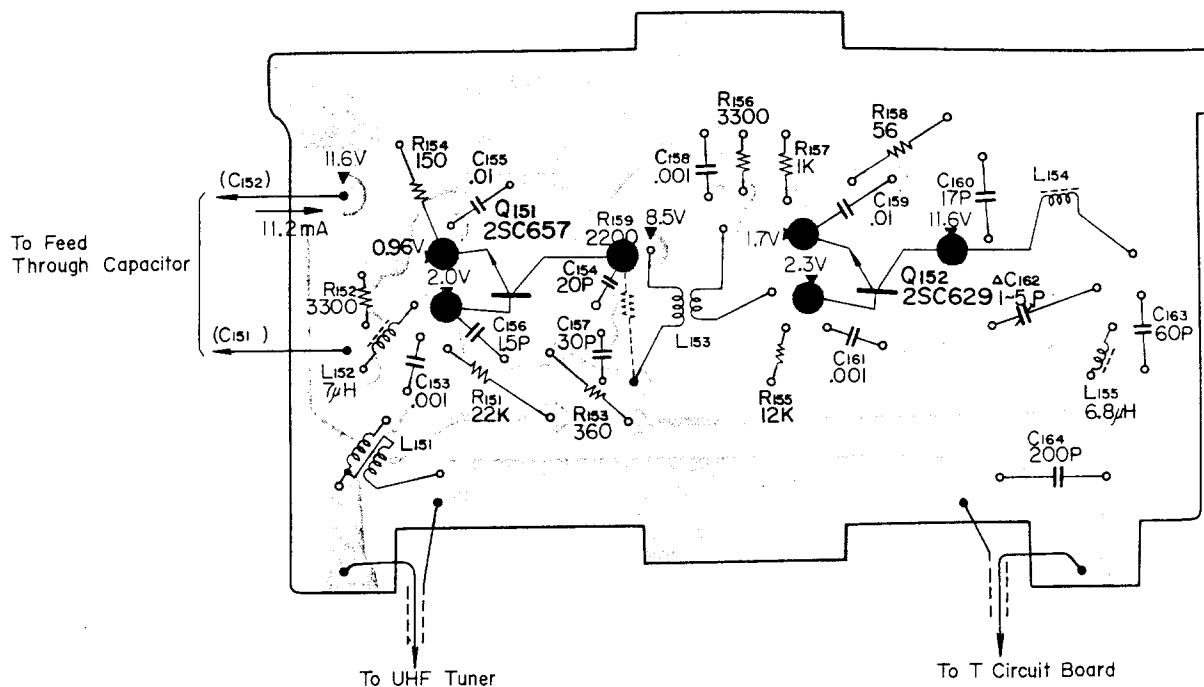
— Component Side —



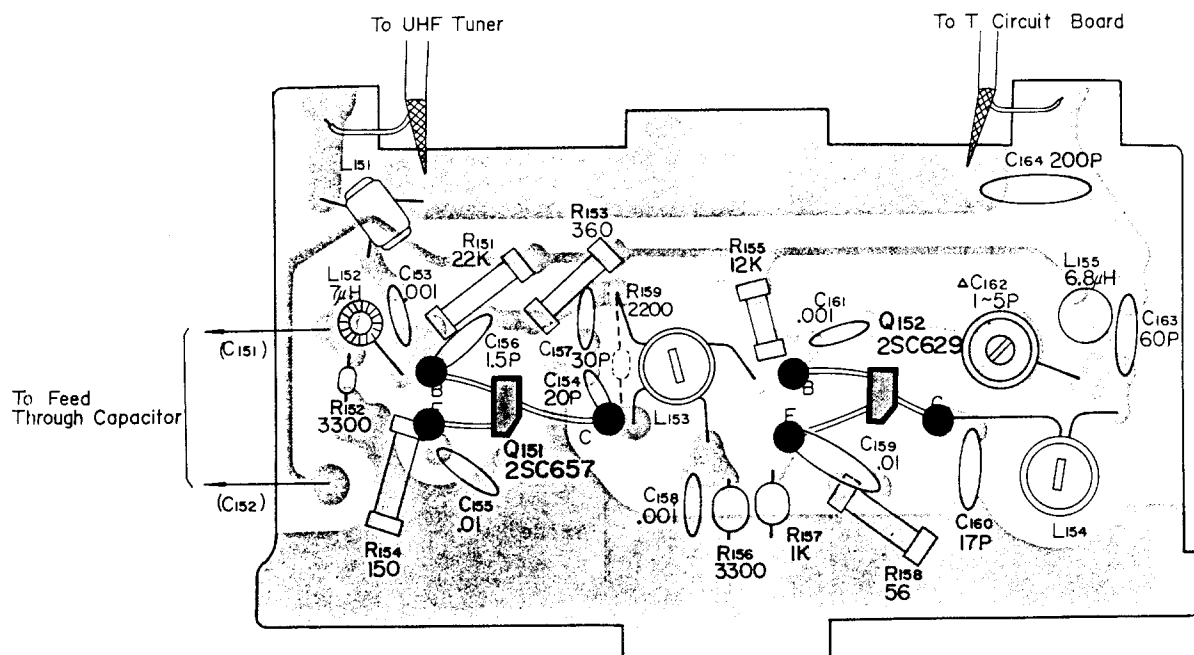
MOUNTING DIAGRAM

UHF-IF Amp Circuit Block (U-IF)

— Conductor Side —



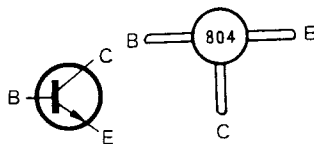
— Component Side —



SEMICONDUCTORS

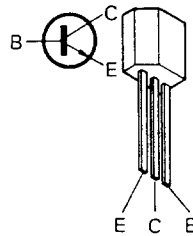
Q101, 102

2SC804



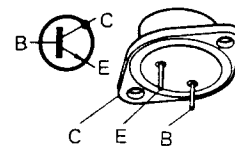
Q151, 152, 201, 202
301, 302, 303, 304
401, 402, 403, 501
551, 601

2SC657 2SC633
2SC629 2SC403A



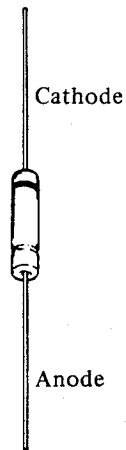
Q703, 802, 803

2SD29
2SD28
2SC806



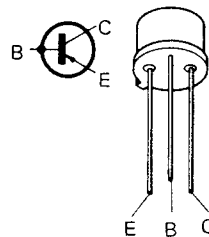
D101, 601, 602
701, 702, 805

1T22A
1S750



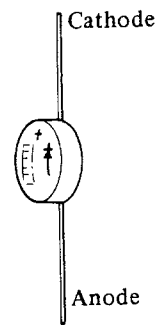
Q552, 553, 602
701, 702, 801

2SB380
381
382
383

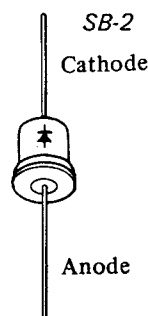


D802, 804

HFSD-1Z



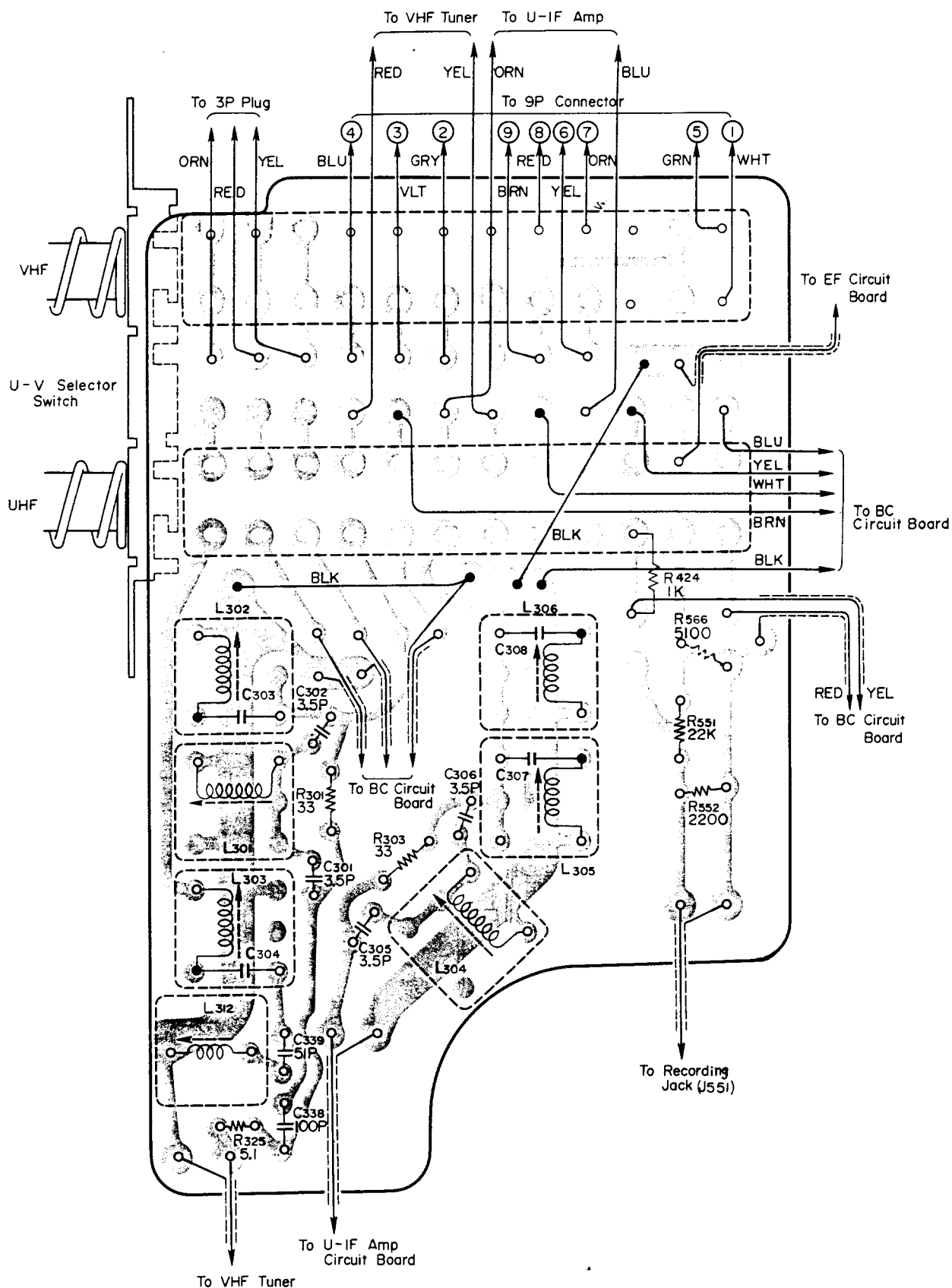
D801



MOUNTING DIAGRAM

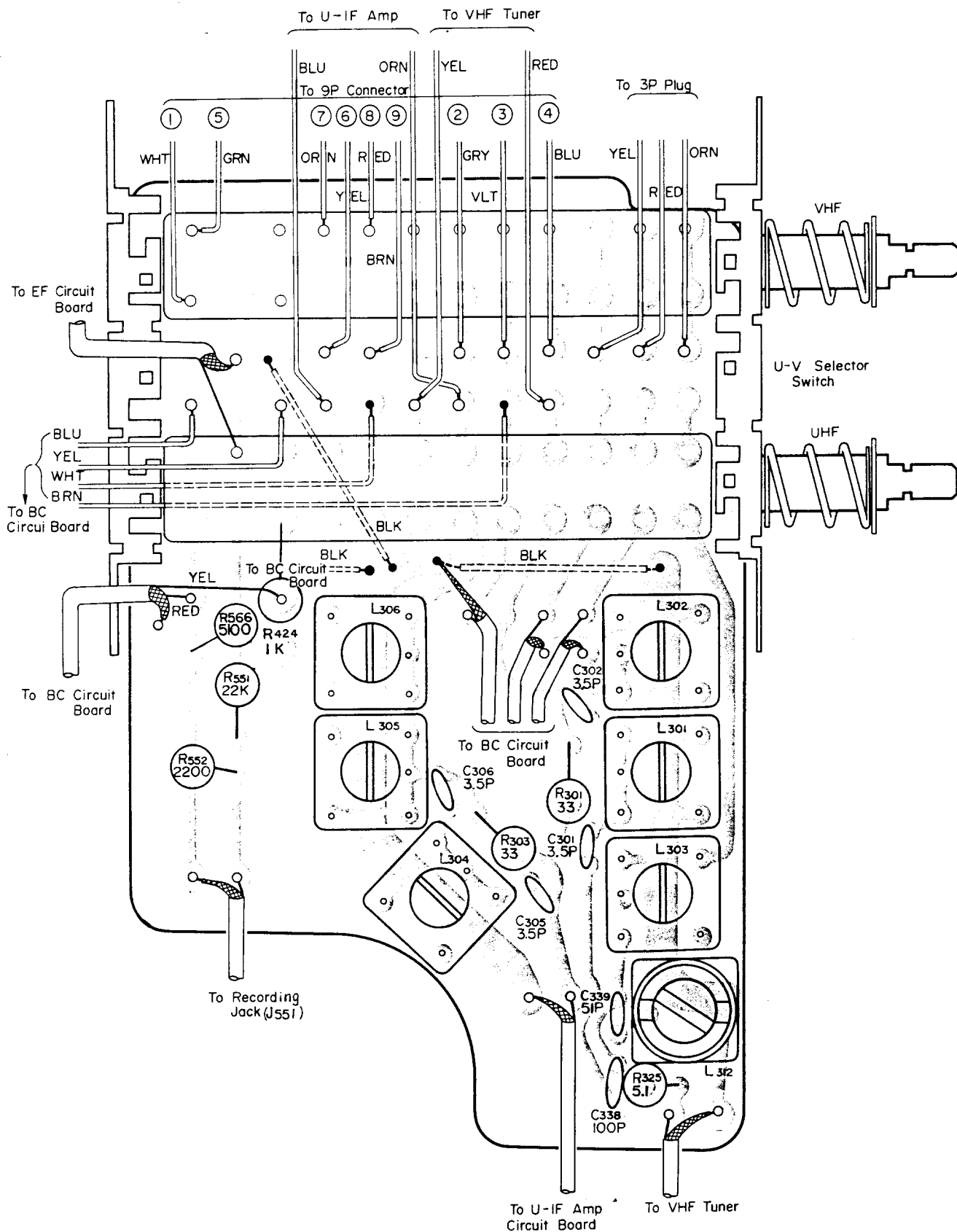
Filter Circuit Block (T)

— Conductor side —



Filter Circuit Block (T)

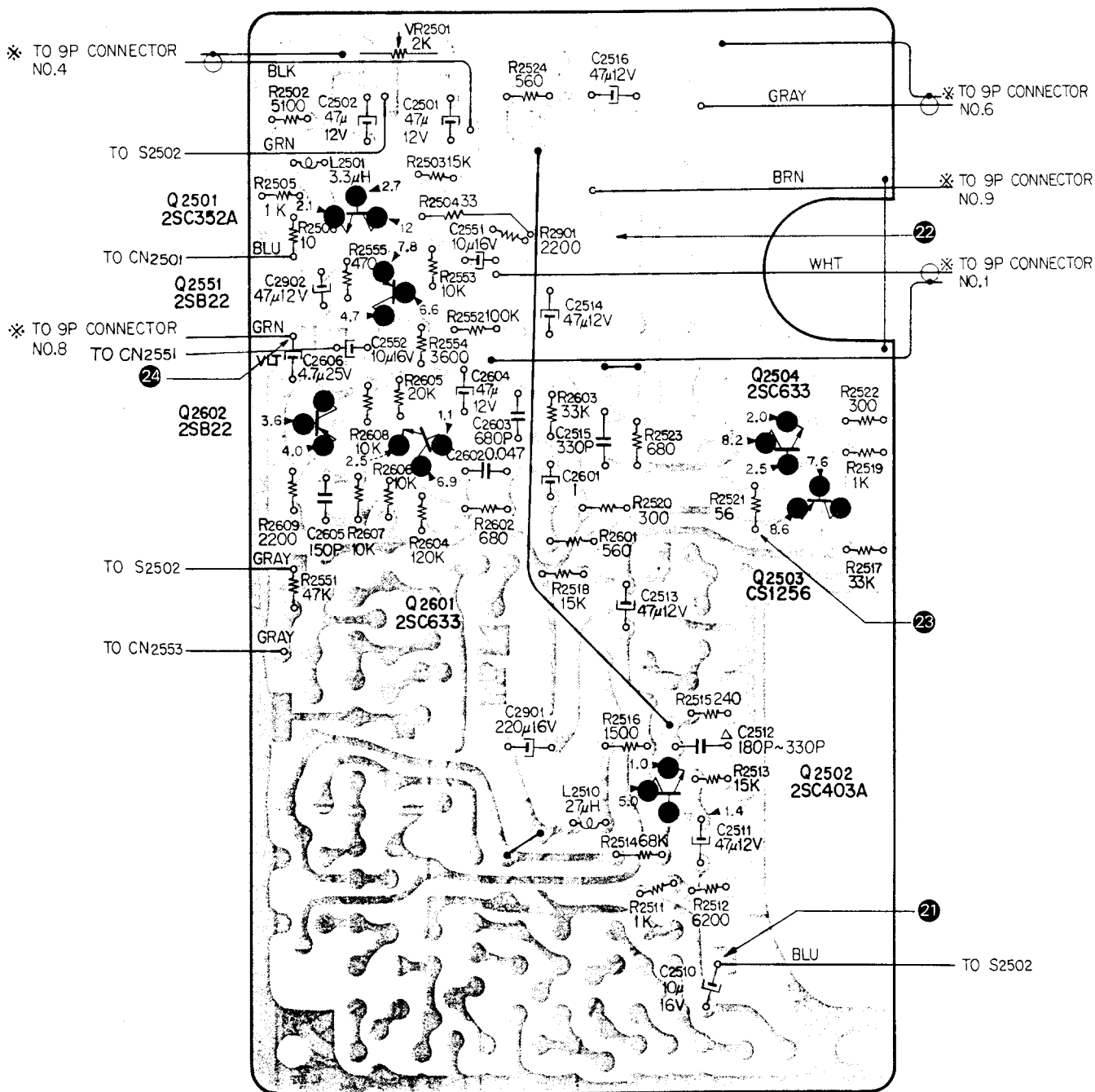
— Component Side —



MOUNTING DIAGRAM

Buffer Circuit Block (QB-4)

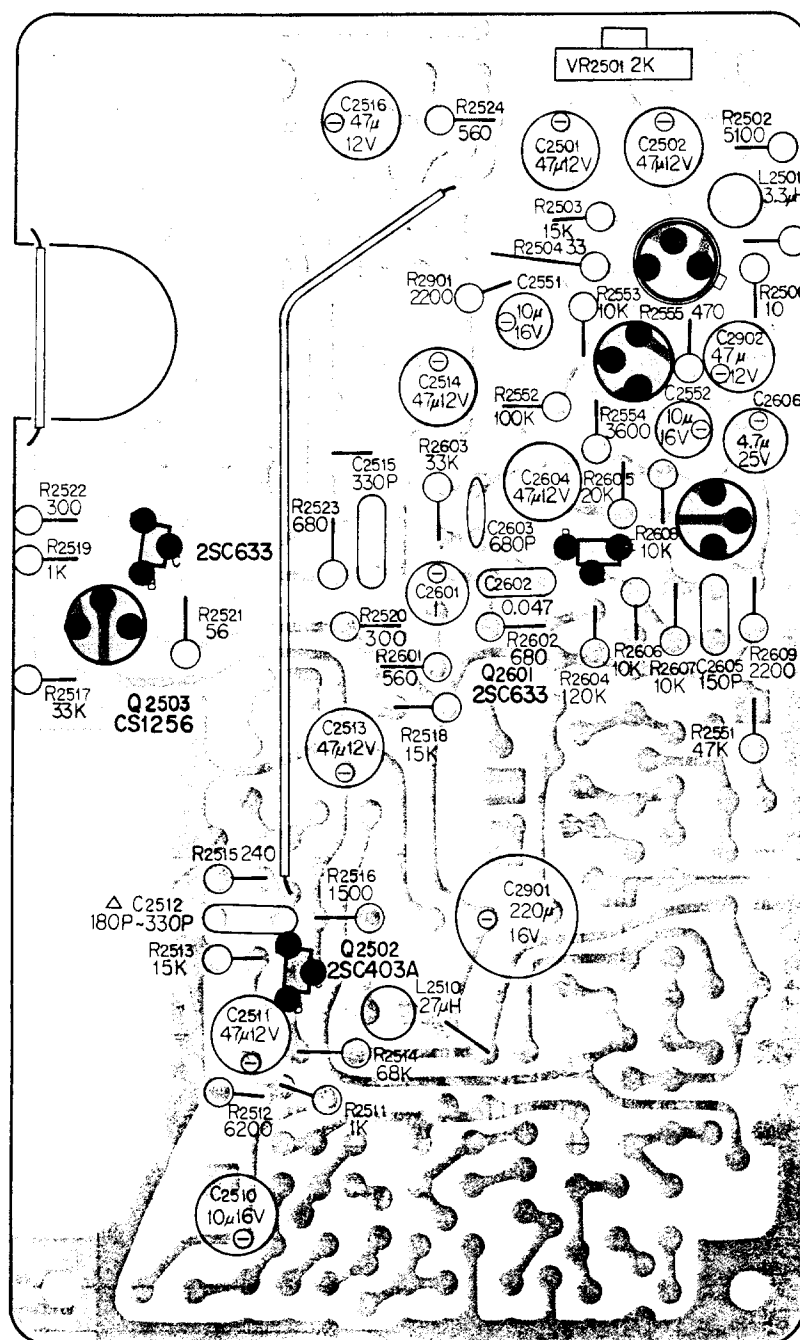
— Conductor Side —



Note: ☆ : Pin number of the 9p connector connecting buffer block (QB-4) and other boards.

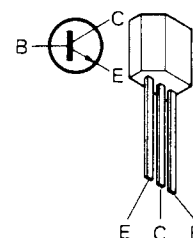
Buffer Circuit Block (QB-4)

— Component Side —



Q2502, 2504, 2601

2SC403A
2SC633

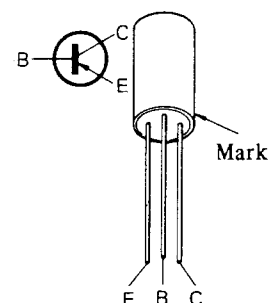


Q2501
2SC352A

Q2551
2SB22

Q2551, 2502, 2503,

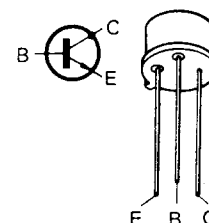
CS1256
2SB22



Q2602
2SB22

Q2501

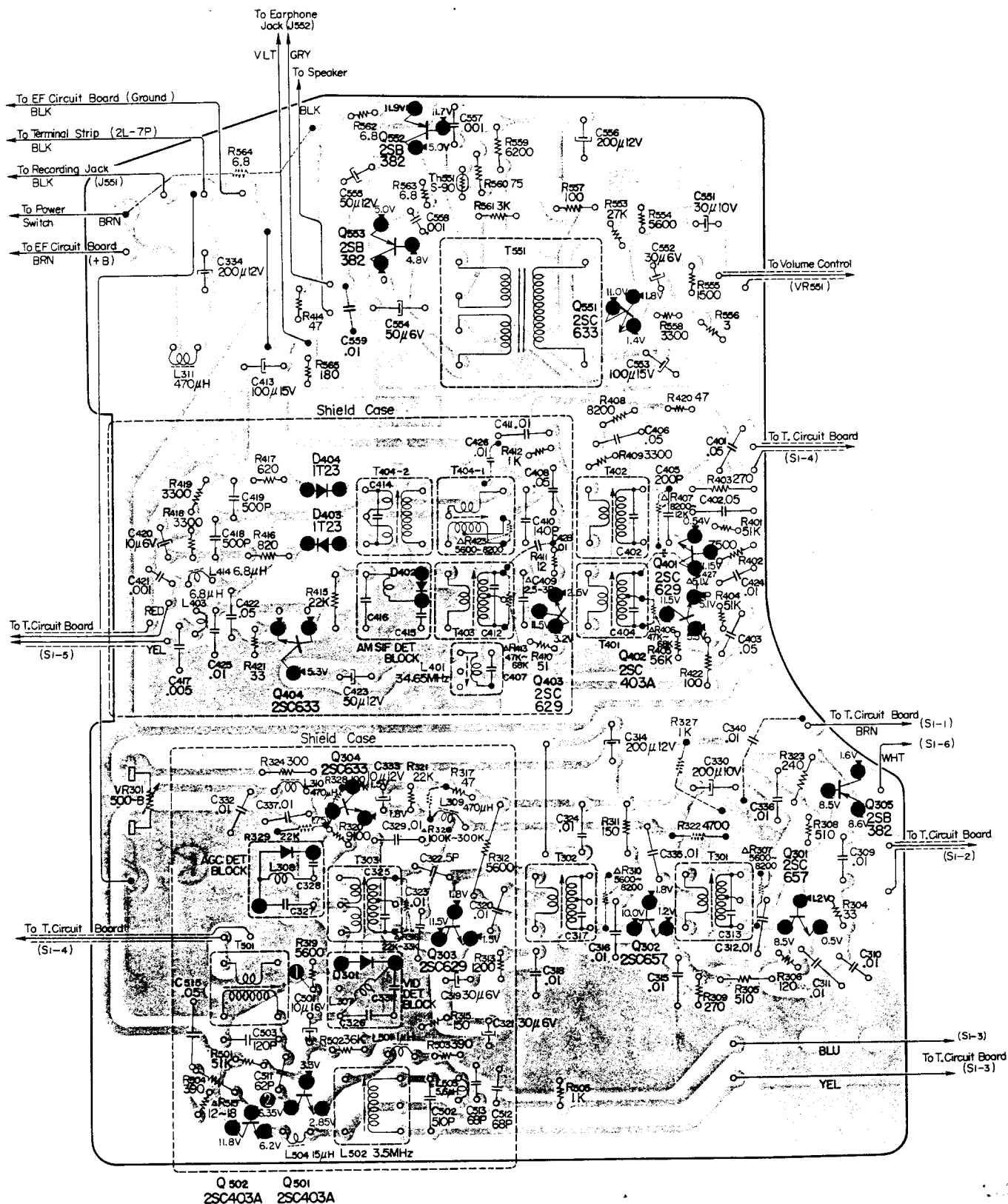
2SC352A



MOUNTING DIAGRAM

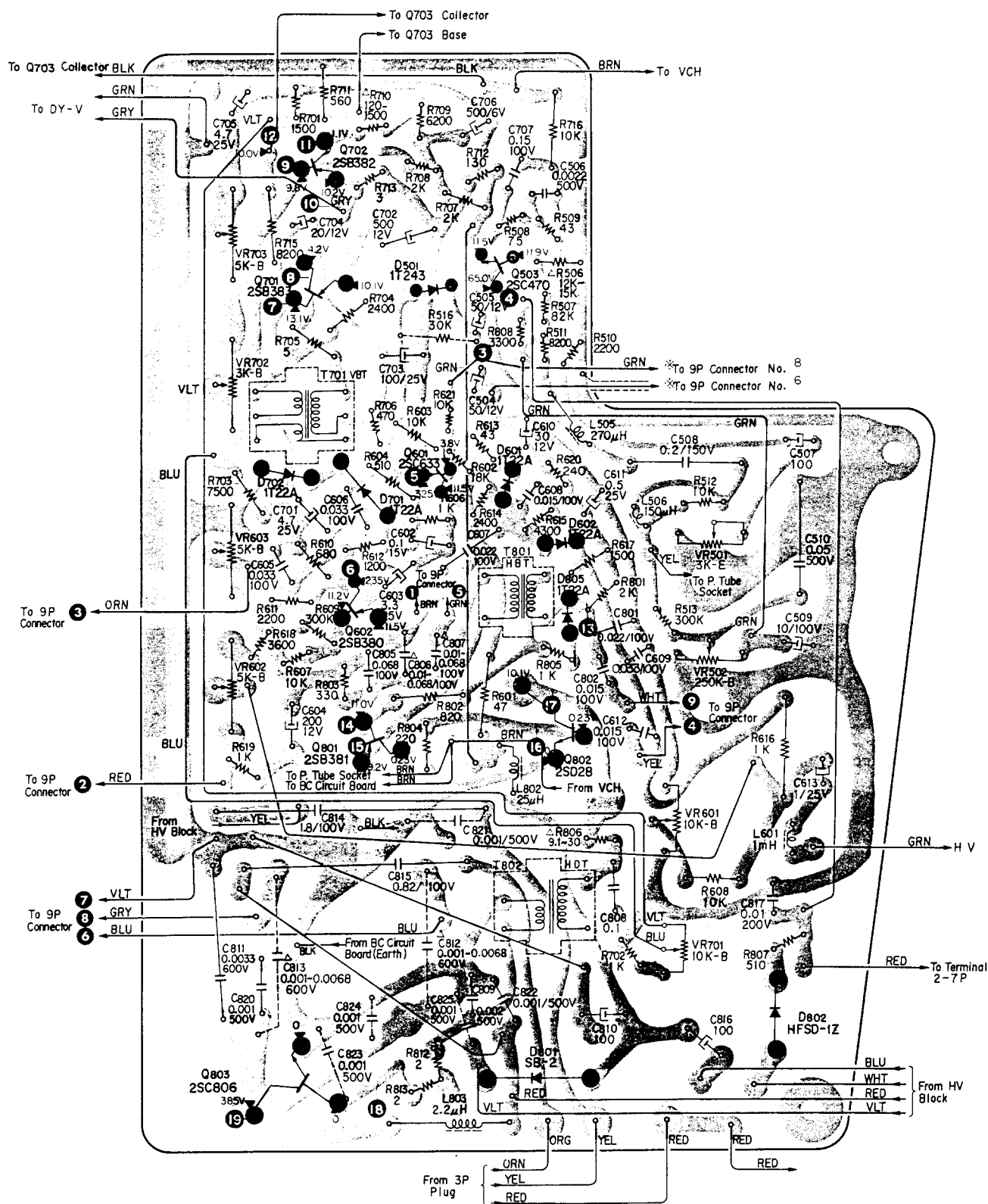
Video & Signal Circuit Block (BC)

— Conductor Side —



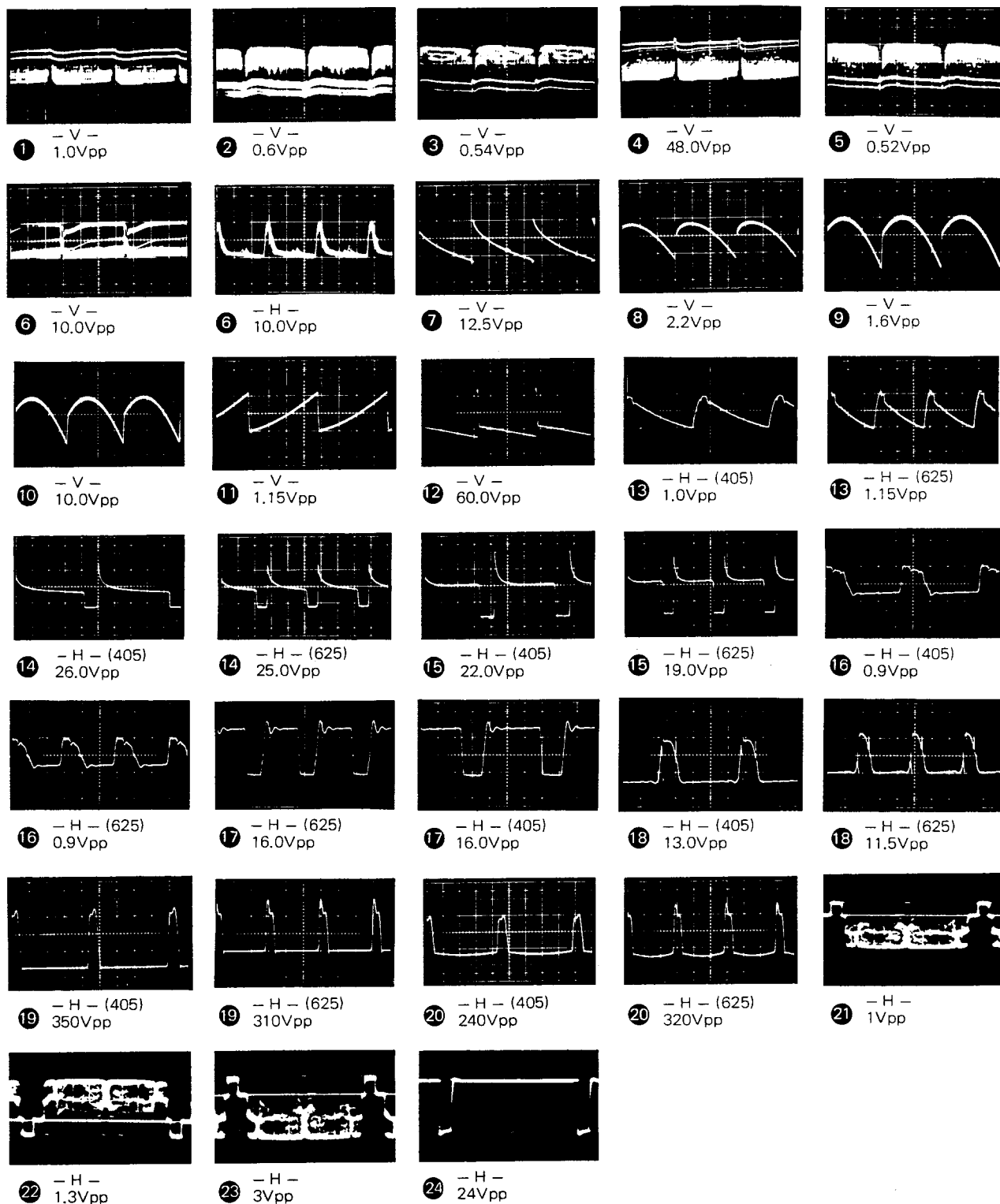
Deflection Circuit Block (EF)

- Conductor Side -



Note: ☆ : Pin number of the 9p connector connecting buffer block (QB-4) and other boards.

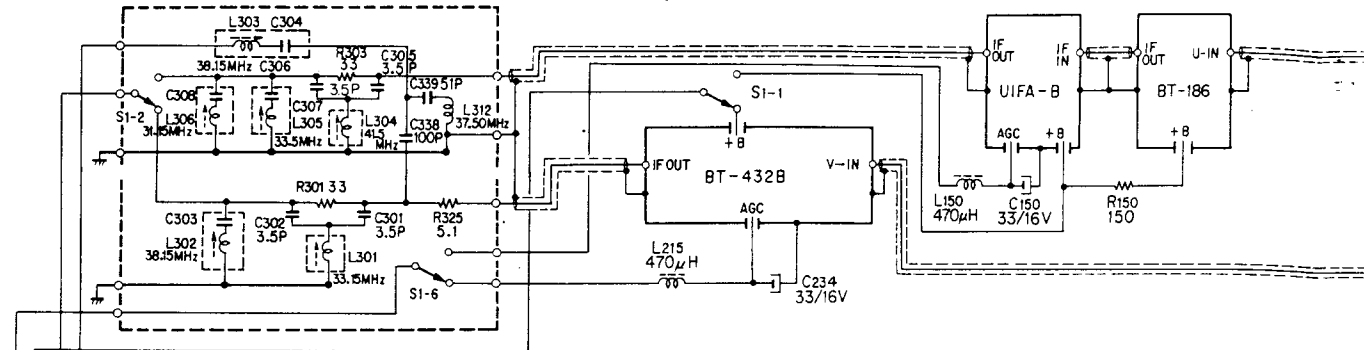
WAVEFORM

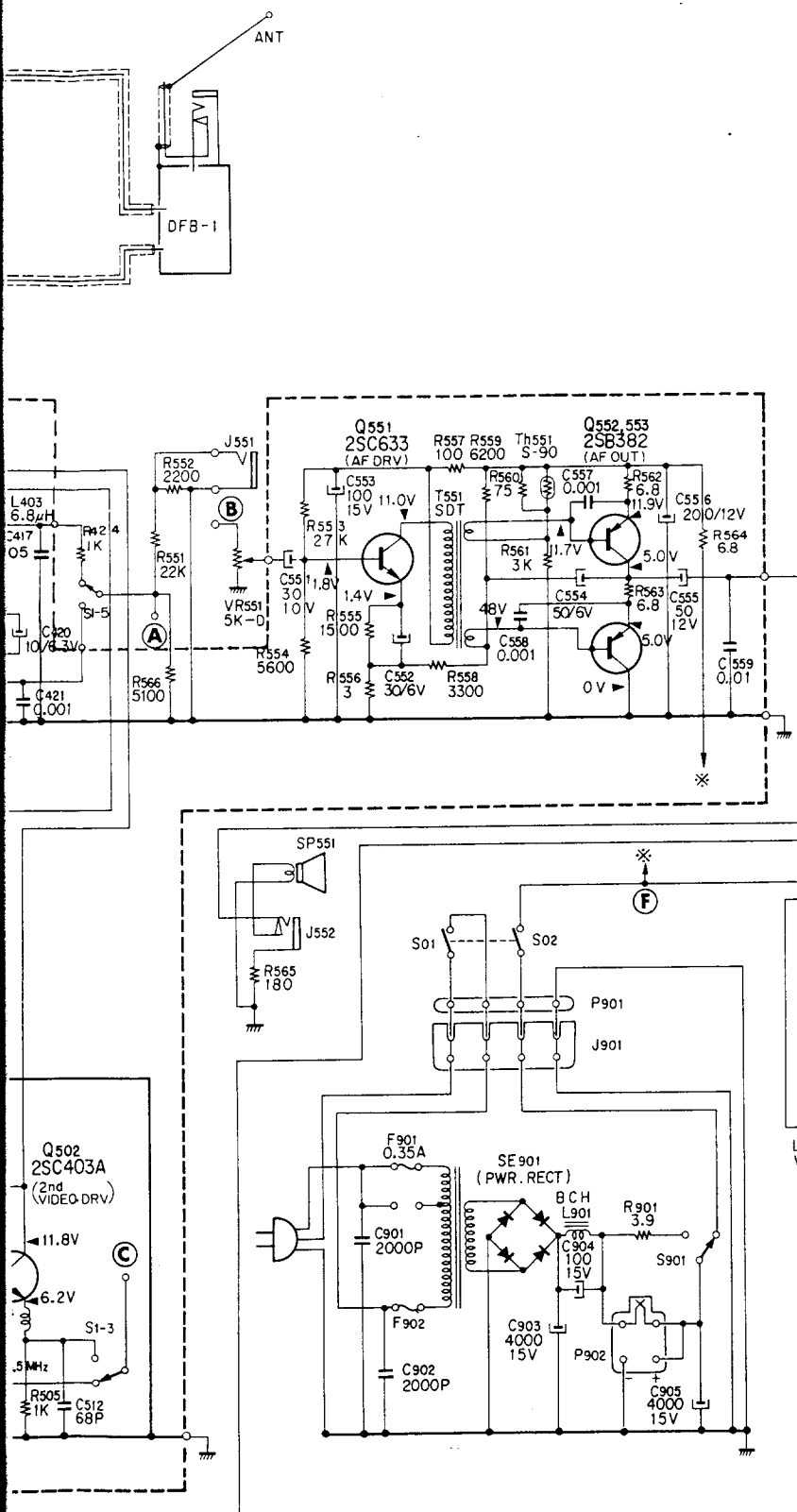


Note: ☆ The circled number (1 - 24) refer to the schematic ☆ Voltage measured from chassis to point indicated with a VOM (20kΩ/V), with no signal input.

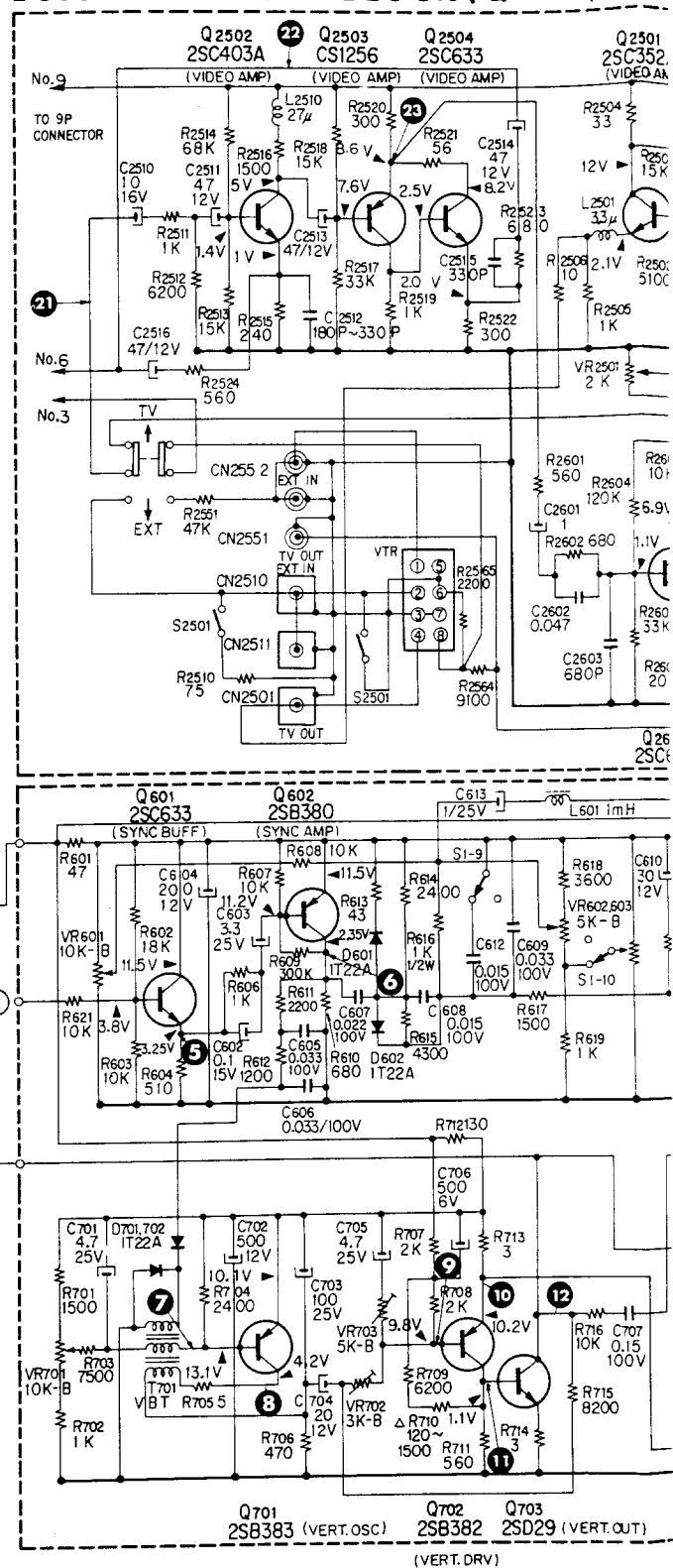
SCHEMATIC DIAGRAM

FILTER INPUT CIRCUIT BLOCK(T)





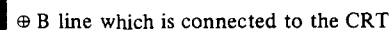
BUFFER CIRCUIT BLOCK (QB-4)



capacitors are in Ω and μF , unless
1.
natic diagram is shown on page 4.
) show the TV receiver side of the 9p

- ☆ Pin numbers (1 - 9) show the buffer block side of the 9p connector.
- ☆ The circled numbers (① - ⑫) refer to the waveforms shown on page 12.
- ☆ All capacitors are 50WV unless otherwise specified.

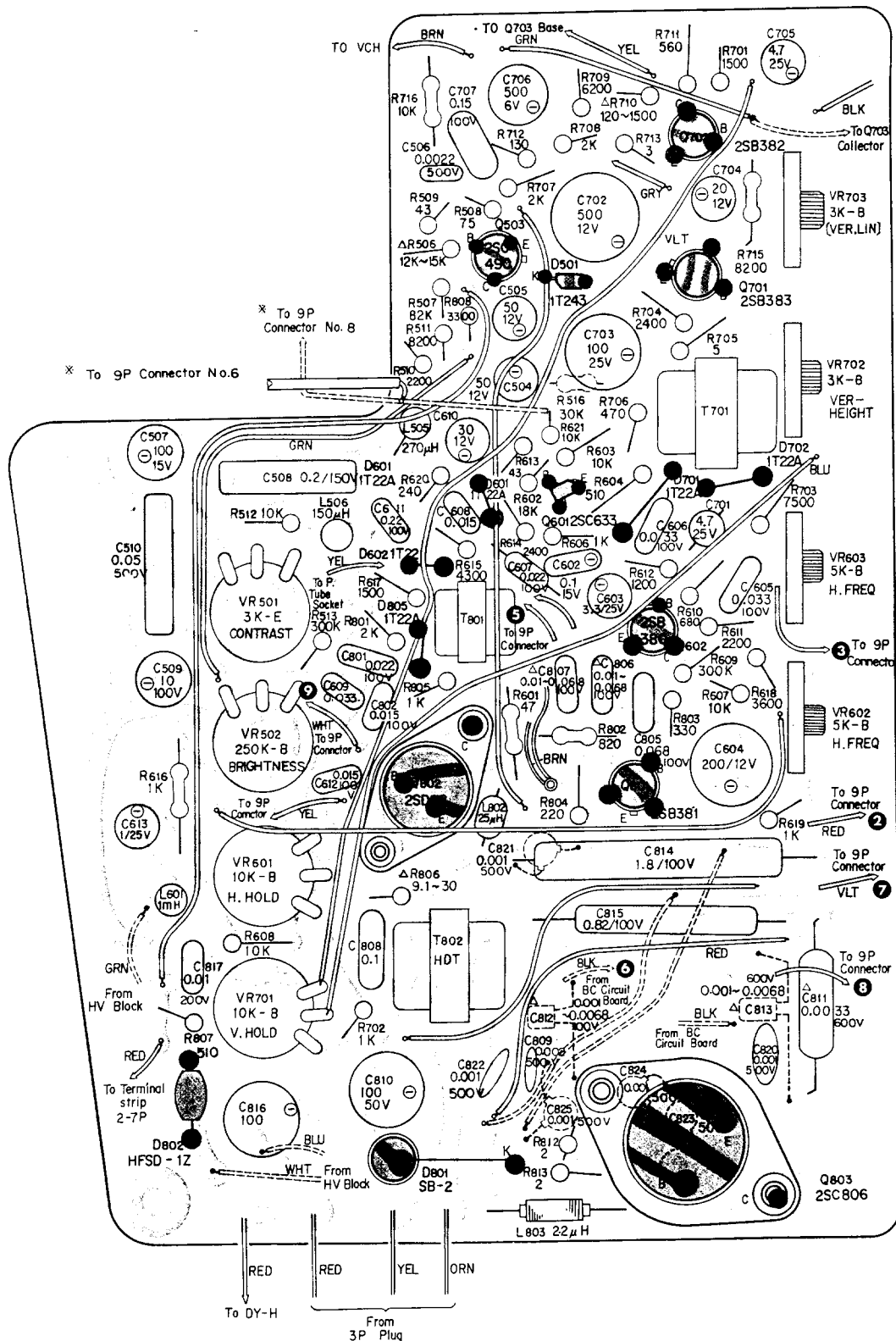
☆ *: This mark is $\oplus$ B line which heater.



MOUNTING DIAGRAM

Deflection Circuit Block (EF)

– Component Side –

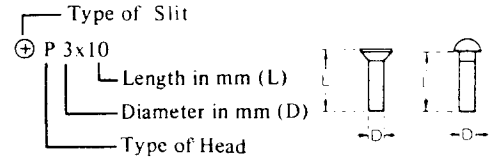


Note: ☆ ※: Pin number of the 9p connector connecting buffer block (QB-4) and other boards.

— Hardware Nomenclature —

P — Pan Head Screw			SC — Set Screw		
PS — Pan Head Screw with Spring Washer			E — Retaining Ring (E Washer)		
K — Flat Countersunk Head Screw			W — Washer		
B — Binding Head Screw			SW — Spring Washer		
RK — Oval Countersunk Head Screw			LW — Lock Washer		
T — Truss Head Screw			N — Nut		
R — Round Head Screw					
F — Flat Fillister Head Screw					

— Example —



 P 3x10
 — Type of Slit
 — Length in mm (L)
 — Diameter in mm (D)
 — Type of Head

*When ordering replacement parts you should use PART NUMBER listed on the Complete Spare Parts List attached herewith.
The reference number or symbol number should not be used for ordering purposes.*

SONY CORPORATION

CVM-90UB

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COMPLETE SPARE PARTS LIST FOR CVM-90UB

November, 1969

<u>Part No.</u>	<u>Description</u>	<u>Q'ty</u>	<u>Unit Price</u>
	1. <u>GENERAL</u>		
98-0125-10	VHF Tuner (BT-432B) Ass'y -----	1	
1-463-004	UHF Tuner (BT-186) Ass'y -----	1	
1-464-001	U-IF Amplifier Block Ass'y -----	1	
	Video & Sound Signal Circuit Board (BC), completed; including filter input board (T)-	1	
	Deflection Circuit Board (EF), completed -----	1	
1-451-046	Deflection Yoke Ass'y -----	1	
1-453-020	High Voltage Block Ass'y -----	1	
98-4564-41	QB-4 Circuit Board -----	1	

2. MECHANICAL PARTS

2-1. CABINET & APPEARANCE BLOCK

X-40097-01	Front Cabinet Ass'y -----	1	
X-40097-02	*Rear Cabinet Ass'y -----	1	
X-40097-03	VHF Channel Knob Ass'y -----	1	
X-40097-04	VHF Fine Tuning Knob Ass'y -----	1	
X-40097-05	Handle Support Ass'y (left) -----	1	
X-40097-06	Handle Support Ass'y (right) -----	1	
X-40097-07	UHF Dial Ass'y -----	1	
X-40097-09	Video Output Shield Plate Ass'y -----	1	
X-40062-16	Volume Control Knob Ass'y -----	1	
X-40074-07	UHF Dial Knob Ass'y -----	1	
4-009-724	Protector -----	1	
4-009-725	Protector Hold -----	1	
4-009-726	Carrying Handle -----	1	
4-009-727	Handle Screw -----	2	
4-009-728	Push Button -----	2	
4-009-729	Tuner Mt'g Bracket -----	1	
4-009-730	Tuner Bracket Support -----	1	
4-009-731	Push Switch Mt'g Bracket -----	1	
4-009-732	Push Switch Supporting Plate -----	1	

* Rear Cabinet Ass'y is same part for model TV9-90UB.
Therefore, please make necessary holes for attaching
the peculiar parts for model CVM-90UB.

<u>Part No.</u>	<u>Description</u>	<u>Q'ty</u>
4-009-733	Speaker Mt'g Wire -----	1
4-009-734	Mt'g Plate for Volume Control -----	1
4-009-735	Capacitor Clamp -----	1
4-009-736	EF Board Mt'g Bracket -----	1
4-009-737	BC Board Mt'g Bracket -----	1
4-009-739	Cabinet Connection Plate -----	1
4-009-740	Mt'g Plate for Telescopic Antenna -----	1
4-009-741	Heat Sink -----	1
4-009-742	BC Board Shield Case (VIF) -----	1
4-009-743	BC Board Shield Cover (SIF) -----	1
4-009-744	BC Board Insulating Cover (SIF) -----	1
4-009-745	BC Board Shield Case (SIF) -----	1
4-009-746	BC Board Shield Cover (SIF) -----	1
4-009-747	BC Board Insulating Cover (VIF) -----	1
4-009-751	Anode Cap Cover -----	1
4-009-759	Cushion for Dust Proof Protector -----	1
3-001-706	Cord Clamp -----	1
4-002-847	Antenna Clamper -----	1
4-002-737	Screw Phill, P 3 x 23 -----	1
4-003-220	Picture Tube Ground Spring -----	1
4-005-367	Anode Cap Spring -----	1
4-005-359	Lead Clamper -----	2
4-005-515	Picture Tube Mt'g Wire Ring -----	1
4-003-506	Drive Screw -----	2
4-006-103	Power Transformer Support -----	1
4-006-233	Control Knob -----	4
4-006-255	Terminal Pin -----	9
4-007-411	Picture Tube Mt'g Bracket -----	4
4-007-415	High Voltage Insulator -----	1
4-007-208	Spacer -----	4
2-065-601	Chassis, buffer board -----	1
2-065-602	Cover, buffer board -----	1
2-065-603	Holding Plate, TV-VTR changing switch -----	1
2-065-604	Panel, connector -----	1
2-065-608	Panel, front -----	1
2-065-609	Sheet, insulator -----	1

2-2. MOUNTING HARDWARE

Screw, machine; phill

7-621-259-42	P 2.6 x 6;	push switch (twin) -----	2
7-621-259-42	P 2.6 x 6;	switch supporting plate -----	1
7-621-261-25	P 3 x 4;	VHF tuner -----	3
7-621-261-25	P 3 x 4;	VHF tuner lug mt'g -----	1
7-621-261-45	P 3 x 6;	power transformer support ----	2
7-621-261-45	P 3 x 6;	push switch supporting plate -	1

<u>Part No.</u>	<u>Description</u>	<u>Q'ty</u>
7-621-261-45	P 3 x 6; push switch (twin) -----	1
7-621-261-45	P 3 x 6; high voltage block -----	2
7-621-261-45	P 3 x 6; tuner block ass'y -----	1
7-621-261-45	P 3 x 6; telescopic antenna -----	1
7-621-261-45	P 3 x 6; rear cabinet -----	2
7-621-261-45	P 3 x 6; BC circuit board -----	2
7-621-261-62	P 3 x 10; vertical output transistor ---	2
7-621-261-62	P 3 x 10; vertical choke coil -----	
7-621-261-62	P 3 x 10; horizontal output transistor -	2
7-621-261-62	P 3 x 10; horizontal drive transistor --	2
7-621-261-62	P 3 x 10; VHF-UHF separator -----	1
7-621-263-25	P 3 x 60; picture tube -----	1
7-621-268-55	P 4 x 8; power transformer -----	2
7-621-268-60	P 4 x 10; rear cabinet -----	2
7-621-559-69	K 2.6 x 10; protector -----	2
7-682-148-01	P 3 x 8; Q box -----	4
7-628-251-15	P 3 x 5; tuner block -----	1

Screw, tapping; phill

7-621-721-81	K 2.6 x 8; antenna clamp -----	1
7-621-721-84	R 2.6 x 8; U-IF amp. -----	1
7-621-722-57	BV 3 x 8; 4 pole terminal -----	2
7-621-722-57	BV 3 x 8; EF circuit board mt'g bracket-	2
7-621-722-57	BV 3 x 8; horizontal linearity coil	
	(H.L.C.) -----	2
7-621-722-57	BV 3 x 8; terminal strip (2-7P) -----	2
7-621-722-57	BV 3 x 8; picture tube mt'g bracket ----	4
7-621-722-57	BV 3 x 8; volume mt'g bracket -----	1
7-621-722-57	BV 3 x 8; heat sink for EF circuit board	2
7-621-722-57	BV 3 x 8; speaker mt'g -----	1
7-621-722-57	BV 3 x 8; EF circuit board -----	2
7-621-722-57	BV 3 x 8; choke coil for power supply --	2
7-621-722-57	BV 3 x 8; terminal strip, 1-3P -----	1
7-621-722-57	BV 3 x 8; charging switch -----	2
7-621-722-57	BV 3 x 8; cord clamp -----	1
7-621-722-57	BV 3 x 8; DC 2 pole plug -----	2
7-621-722-57	BV 3 x 8; vertical choke coil -----	1
7-621-722-63	BV 3 x 10; BC circuit board -----	1
7-621-722-75	BV 3 x 12; tuner support -----	2
7-621-722-48	BV 3 x 6; EF circuit board -----	1
7-621-724-44	R 4 x 10; rear cabinet -----	1

<u>Part No.</u>	<u>Description</u>	<u>Q'ty</u>
	<u>Hexagonal Nut</u>	
7-622-108-02	3 ϕ; vertical output transistor ---	2
7-622-108-02	3 ϕ; horizontal output transistor -	2
7-622-108-02	3 ϕ; horizontal drive transistor --	2
7-622-108-02	3 ϕ; vertical choke coil -----	1
7-622-108-02	3 ϕ; picture tube -----	1
7-684-013-01	3 ϕ; Q box -----	4

	<u>Washer</u>	
7-623-108-12	3 ϕ; rear cabinet -----	2
7-623-108-12	3 ϕ; telescopic antenna -----	1
7-623-108-12	3 ϕ; VHF-UHF separator -----	1
7-623-108-12	3 ϕ; Q box -----	4
7-623-207-22	Spring 2.6 ϕ; push switch (twin) -----	2
7-623-207-22	Spring 2.6 ϕ; switch supporting plate -----	1
7-628-208-11	Spring 3 ϕ; Q box -----	4
7-623-208-22	Spring 3 ϕ; power transformer -----	2
7-623-208-22	Spring 3 ϕ; tuner -----	3
7-623-208-22	Spring 3 ϕ; high voltage block -----	2
7-623-208-22	Spring 3 ϕ; vertical choke coil -----	1
7-623-112-12	5 ϕ; rear cabinet -----	
7-623-408-05	Ext. Tooth 3 ϕ; selenium rectifier -----	1
7-623-408-05	Ext. Tooth 3 ϕ; VHF tuner lug -----	1
7-623-408-05	Ext. Tooth 3 ϕ; vertical output transistor ---	2
7-623-408-05	Ext. Tooth 3 ϕ; horizontal output transistor -	2
7-623-408-05	Ext. Tooth 3 ϕ; horizontal drive transistor --	2
7-623-408-05	Ext. Tooth 3 ϕ; vertical choke coil -----	1

	<u>Lug</u>	
7-623-507-01	2.6 ϕ; U-IF amp. -----	1
7-623-508-01	3 ϕ; vertical output transistor ---	1
7-623-508-01	3 ϕ; BC circuit board mt'g bracket-	1
7-623-508-01	3 ϕ; VHF tuner -----	1
7-623-508-01	3 ϕ; vertical choke coil -----	1

<u>Part No.</u>	<u>Description</u>	<u>Q'ty</u>
2-3. CARTONS & ACCESSORIES BLOCK		
X-40097-10	Front Cover Ass'y -----	1
X-40138-02	Card Ass'y -----	1
X-44900-03	Polishing Cloth in Polyethylene Bag -----	1
X-40097-11	Spare Fuse Ass'y -----	1
X-40057-54-2	Monitor Connecting Cord in Polyethylene Bag ---	1
X-40138-01	Master Carton Ass'y, 2 sets -----	1
4-495-243-11	Instrutio n Manual -----	1
1-504-034	Earphone -----	1
4-004-143	Serial Number Label -----	1
4-009-752	Master Carton, 2 sets -----	1
4-009-753	Packing Carton -----	1
4-013-	Cushion, right -----	1
4-013-805	Cushion, left -----	1
4-009-756	Front Cover -----	1
3-701-161	Polyethylene Bag -----	1
3-813-651	Color Label -----	3

Ref. No.	Part No.	Description
3. <u>ELECTRICAL PARTS</u>		
3-1. SEMICONDUCTORS		
Q301	Transistor,	2SC657 -----
Q302	" ,	2SC657 -----
Q303	" ,	2SC629 -----
Q304	" ,	2SC633 -----
Q305	" ,	2SB382 -----
Q401	" ,	2SC629 -----
Q402	" ,	2SC403A -----
Q403	" ,	2SC629 -----
Q404	" ,	2SC633 -----
Q501	" ,	2SC403A -----
Q502	" ,	2SC403A -----
Q503	" ,	2SC470 -----
Q551	" ,	2SC633 -----
Q552	" ,	2SB382 -----
Q553	" ,	2SB382 -----
Q601	" ,	2SC633 -----
Q602	" ,	2SB380 -----
Q701	" ,	2SB383 -----
Q702	" ,	2SB382 -----
Q703	" ,	2SD29 -----
Q801	" ,	2SB381 -----
Q802	" ,	2SD28 -----
Q803	" ,	2SC806 -----
Q2501	" ,	2SC352A -----
Q2502	" ,	2SC403A -----
Q2503	" ,	CS 1256H -----
Q2504	" ,	2SC633-6 -----
Q2551	" ,	2SB22 -----
Q2501	" ,	2SC633-7 -----
Q2602	" ,	2SB22 -----
D301	Diode,	1T261 -----
D302	" ,	1T261 -----
D402	" ,	1T261 -----
D403	" ,	1T23 -----
D404	" ,	1T23 -----
D501	" ,	1T243 -----
D601	" ,	1T22A -----

<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description</u>	
D602		Diode,	1T22A -----
D701		" ,	1T22A -----
D702		" ,	1T22A -----
D801		" ,	SB-2 -----
D802		" ,	HFSD1Z -----
D804		" ,	HFSD1Z -----
D805		" ,	1T22A -----
Th551		Thermistor,	S-90 -----

3-2. COILS

L301	1-409-157	33.15 MHz,	Trap Coil -----
L302	1-409-149	38.15 MHz,	" " -----
L303	1-409-149	38.15 MHz,	" " -----
L304	1-409-153	41.5 MHz,	" " -----
L305	1-409-150	33.5 MHz,	" " -----
L306	1-409-151	31.5 MHz,	" " -----
L309	1-407-177	470 μ H,	Micro Inductor -----
L310	1-407-177	470 μ H,	" " -----
L311	1-407-177	470 μ H,	" " -----
L312	1-409-159	37.50 MHz,	Trap Coil -----
L401	1-409-152	34.65 MHz,	" " -----
L403	1-407-187	6.8 μ H,	Micro Inductor -----
L414	1-407-187	6.8 μ H,	" " -----
L501	1-407-178	1 μ H,	" " -----
L502	1-409-036	3.5 MHz,	Trap Coil -----
L503	1-407-187	5.6 μ H,	Micro Inductor -----
L504	1-407-159	15 μ H,	" " -----
L505	1-407-174	270 μ H,	" " -----
L506	1-407-171	150 μ H,	" " -----
L601	1-431-038	1 mH,	" " -----
L701	1-421-193	Vertical Output Choke Coil	-----
L802	1-421-013	Rectifier Filter Choke Coil, 25 μ H	-----
L803	1-407-220	2.2 μ H,	Micro Inductor -----
L804	1-459-033	Horizontal Linearity Coil	-----
L901	1-421-142	Filter Choke Coil, BCH	-----
L2501	1-407-184	3.3 μ H,	Micro Inductor -----
L2510	1-407-162	27 μ H,	" " -----

<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description</u>
3-3. TRANSFORMERS		
T301	1-403-508	Video IF Transformer -----
T302	1-403-509	" " " -----
T303	1-403-510	" " " -----
T401	1-403-359	Sound IF Transformer -----
T402	1-403-356	" " " -----
R403	1-403-355	" " " -----
T404-1	1-403-357	" " " -----
T404-2	1-403-358	" " " -----
T501	1-403-354	" " " -----
T551	1-423-067	Sound Drive Transformer -----
T701	1-435-005	Vertical Blocking Osc. Transformer -----
T801	1-435-009	Horizontal Blocking Osc. Transformer -----
T802	1-437-019	Horizontal Drive Transformer -----
T901	1-441-401	Power Transformer -----

3-4. CAPACITORS		
C301	1-101-552	3.5 pF 50 WV, ceramic -----
C302	1-101-552	3.5 pF " , " -----
C305	1-101-552	3.5 pF " , " -----
C306	1-101-552	3.5 pF " , " -----
C309	1-101-004	0.01 μ F " , " -----
C310	1-101-004	0.01 μ F " , " -----
C311	1-101-004	0.01 μ F " , " -----
C312	1-101-004	0.01 μ F " , " -----
C313	1-101-004	0.01 μ F " , " -----
C314	1-121-296	200 μ F 12 WV, electrolytic -----
C315	1-101-004	0.01 μ F 50 WV, ceramic -----
C316	1-101-004	0.01 μ F " , " -----
C318	1-101-004	0.01 μ F " , " -----
C319	1-121-482	30 μ F 6 WV, electrolytic -----
C320	1-101-004	0.01 μ F 50 WV, ceramic -----
C321	1-121-482	30 μ F 6 WV, electrolytic -----
C322	1-101-837	0.5 pF 50 WV, ceramic -----
C323	1-101-004	0.01 μ F " , " -----
C324	1-101-004	0.01 μ F " , " -----
C329	1-101-004	0.01 μ F " , " -----
C330	1-121-712	200 μ F 10 WV, electrolytic -----
C332	1-101-004	0.01 μ F 50 WV, ceramic -----

<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description</u>	
C333	1-121-470	10 μ F	12 WV, electrolytic -----
C334	1-121-296	200 μ F	" , " -----
C335	1-101-004	0.01 μ F	50 WV, ceramic -----
C336	1-101-004	0.01 μ F	" , " -----
C337	1-101-004	0.01 μ F	" , " -----
C338	1-101-896	100 pF	" , " -----
C339	1-101-986	51 pF	" , " -----
C340	1-101-004	0.01 μ F	" , " -----
C401	1-101-007	0.05 μ F	50 WV, ceramic -----
C402	1-101-007	0.05 μ F	" , " -----
C403	1-101-007	0.05 μ F	" , " -----
C405	1-103-708	200 pF	" , polystyrene -----
C406	1-101-007	0.05 μ F	" , ceramic -----
C408	1-101-007	0.05 μ F	" , " -----
*C409	1-101-574	2.5 pF	" , " -----
*C409	1-101-553	3 pF	" , " -----
C410	1-101-571	140 pF	" , " -----
C411	1-101-004	0.01 μ F	" , " -----
C413	1-121-356	100 μ F	15 WV, electrolytic -----
C417	1-101-003	0.005 μ F	50 WV, ceramic -----
C418	1-101-421	500 pF	75 WV, " -----
C419	1-101-421	500 pF	" , " -----
C420	1-121-468	10 μ F	6 WV, electrolytic -----
C421	1-101-001	0.001 μ F	50 WV, ceramic -----
C422	1-101-007	0.05 μ F	" , " -----
C423	1-121-489	50 μ F	12 WV, electrolytic -----
C424	1-101-004	0.01 μ F	50 WV, ceramic -----
C425	1-101-004	0.01 μ F	" , " -----
C426	1-101-004	0.01 μ F	" , " -----
*C427	1-101-157	1 pF	" , " -----
*C427	1-101-576	1.5 pF	" , " -----
*C427	1-101-584	2 pF	" , " -----
C428	1-101-004	0.01 μ F	" , " -----
C501	1-121-470	10 μ F	12 WV, electrolytic -----
C502	1-103-718	510 pF	50 WV, polystyrene -----
C503	1-101-888	120 pF	" , ceramic -----
C504	1-121-489	50 μ F	12 WV, electrolytic -----
C505	1-121-489	50 μ F	" , " -----
C506	1-105-665	0.0022 μ F	50 WV, mylar -----
C507	1-121-356	100 μ F	15 WV, electrolytic -----

* Mark to be selected.

Ref. No.	Part No.	Description
C508	1-113-124	0.2 μ F 150 WV, paper -----
C509	1-121-126	10 μ F 100 WV, electrolytic -----
C510	1-113-122	0.05 μ F 500 WV, paper -----
C511	1-102-849	62 pF 50 WV, ceramic -----
C512	1-101-888	68 pF " , " -----
C513	1-101-888	68 pF " , " -----
C514	1-113-122	0.05 μ F 500 WV, paper -----
C515	1-101-007	0.05 μ F 50 WV, ceramic -----
C551	1-121-483	30 μ F 10 WV, electrolytic -----
C552	1-121-482	30 μ F 6 WV, " -----
C553	1-121-356	100 μ F 15 WV, " -----
C554	1-121-487	50 μ F 6 WV, " -----
C555	1-121-489	50 μ F 12 WV, " -----
C556	1-121-296	200 μ F " , " -----
C557	1-101-001	0.001 μ F 50 WV, ceramic -----
C558	1-101-001	0.001 μ F " , " -----
C559	1-101-004	0.01 μ F " , " -----
C601	1-121-282	10 μ F 12 WV, electrolytic -----
C602	1-127-201	0.1 μ F 15 WV, " -----
C603	1-121-344	3 μ F 25 WV, " -----
C604	1-121-296	200 μ F 12 WV, " -----
C605	1-105-679	0.033 μ F WV, mylar -----
C606	1-105-679	0.033 μ F " , " -----
C607	1-105-677	0.022 μ F " , " -----
C608	1-105-675	0.015 μ F " , " -----
C609	1-105-679	0.033 μ F " , " -----
C610	1-121-285	30 μ F 12 WV, electrolytic -----
C611	1-121-093	0.5 μ F 25 WV, " -----
C612	1-105-675	0.015 μ F 50 WV, mylar -----
C613	1-121-279	1 μ F 25 WV, electrolytic -----
C701	1-121-232	4.7 μ F 25 WV, electrolytic -----
C702	1-121-084	500 μ F 12 WV, " -----
C703	1-121-704	100 μ F 25 WV, " -----
C704	1-121-478	20 μ F 12 WV, " -----
C705	1-121-232	4.7 μ F 25 WV, " -----
C706	1-121-359	500 μ F 6 WV, " -----
C707	1-105-687	0.15 μ F 50 WV, mylar -----

Ref. No.	Part No.	Description	
C801	1-105-677	0.022 μ F	50 WV, mylar -----
C802	1-105-675	0.015 μ F	" , " -----
C805	1-105-683	0.068 μ F	" , " -----
*C806,807	1-105-673	0.01 μ F	" WV, " -----
*C806,807	1-105-675	0.015 μ F	" , " -----
*C806,807	1-105-677	0.022 μ F	" , " -----
*C806,807	1-105-679	0.033 μ F	" , " -----
*C806,807	1-105-681	0.047 μ F	" , " -----
*C806,807	1-105-683	0.068 μ F	" , " -----
C808	1-105-685	0.1 μ F	" , " -----
C809	1-101-821	0.002 μ F	500 WV, ceramic -----
C810	1-121-703	100 μ F	50 WV, electrolytic -----
C811	1-105-464	0.0033 μ F	600 WV, mylar -----
*C812,813	1-105-461	0.001 μ F	" , " -----
*C812,813	1-105-462	0.0015 μ F	" , " -----
*C812,813	1-105-463	0.0022 μ F	" , " -----
*C812,813	1-105-464	0.0033 μ F	" , " -----
*C812,813	1-105-465	0.0047 μ F	" , " -----
*C812,813	1-105-466	0.0068 μ F	" , " -----
C814	1-129-495	1.8 μ F	100 WV, mylar -----
C815	1-129-496	0.82 μ F	" , " -----
C816	1-121-703	100 μ F	50 WV, electrolytic -----
C817	1-105-753	0.01 μ F	200 WV, mylar -----
C818	1-113-122	0.05 μ F	500 WV, paper -----
C819	1-105-749	0.0047 μ F	200 WV, mylar -----
C820	1-101-845	0.001 μ F	500 WV, ceramic -----
C821	1-101-845	0.001 μ F	" , " -----
C822	1-101-845	0.001 μ F	" , " -----
C823	1-101-845	0.001 μ F	" , " -----
C824	1-101-845	0.001 μ F	" , " -----
C825	1-101-845	0.001 μ F	" , " -----
C901	1-109-015	2000 pF	500 WV, mica -----
C902	1-109-015	2000 pF	" , " -----
C903	1-121-023	4000 μ F	15 WV, electrolytic -----
C904	1-119-101	100 μ F	12 WV, " -----
C905	1-121-023	4000 μ F	15 WV, " -----
C2501	1-121-352	47 μ F	12 WV, electrolytic -----
C2502	1-121-352	47 μ F	" , " -----
C2510	1-121-347	10 μ F	16 WV, " -----
C2511	1-121-352	47 μ F	12 WV, " -----

* Mark to be selected.

Ref. No.	Part No.	Description		
R410	1-248-642	51 Ω	ERD14V, carbon	-----
R411	1-248-627	12 Ω	" , "	-----
R412	1-248-673	1 k Ω	" , "	-----
R414	1-248-641	47 Ω	" , "	-----
R415	1-248-705	22 k Ω	" , "	-----
R416	1-248-671	820 Ω	" , "	-----
R417	1-248-668	620 Ω	" , "	-----
R418	1-248-685	3.3 k Ω	" , "	-----
R419	1-248-685	3.3 k Ω	" , "	-----
R420	1-248-641	47 Ω	" , "	-----
R421	1-248-637	33 Ω	" , "	-----
R422	1-248-649	100 Ω	" , "	-----
R424	1-248-673	1 k Ω	" , "	-----
R501	1-248-714	51 k Ω	ERD14V, carbon	-----
R502	1-248-710	36 k Ω	" , "	-----
R503	1-248-663	390 Ω	" , "	-----
R504	1-248-663	390 Ω	" , "	-----
R505	1-248-673	1 k Ω	" , "	-----
*R506	1-248-699	12 k Ω	" , "	-----
*R506	1-248-701	15 k Ω	" , "	-----
R507	1-248-719	82 k Ω	" , "	-----
R508	1-248-646	75 Ω	" , "	-----
R509	1-248-640	43 Ω	" , "	-----
R510	1-248-681	2.2 k Ω	" , "	-----
R511	1-248-695	8.2 k Ω	" , "	-----
R512	1-248-697	10 k Ω	" , "	-----
R513	1-248-732	300 k Ω	" , "	-----
R514		2.2 k Ω	RC1/2, composition	-----
*R515	1-248-627	12 Ω	ERD14V, carbon	-----
*R515	1-248-629	15 Ω	" , "	-----
*R515	1-248-631	18 Ω	" , "	-----
R516	1-246-708	30 k Ω	ERD14T, "	-----
R551	1-248-705	2.2 k Ω	ERD14V, "	-----
R552	1-248-681	2.2 k Ω	" , "	-----
R553	1-248-707	27 k Ω	" , "	-----
R554	1-248-691	5.6 k Ω	" , "	-----
R555	1-248-677	1.5 k Ω	" , "	-----
R556	1-248-612	3 Ω	" , "	-----
R557	1-248-649	100 Ω	" , "	-----
R558	1-248-685	3.3 k Ω	" , "	-----
R559	1-248-692	6.2 k Ω	" , "	-----

* Mark to be selected.

<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description</u>
R560	1-248-646	75 Ω ERD14V, carbon -----
R561	1-248-684	3 k Ω " , " -----
R562	1-202-321	6.8 Ω RC1/4, composition -----
R563	1-248-621	6.8 Ω ERD14V, carbon -----
R564	1-246-621	6.8 Ω ERD14T, " -----
R565	1-248-655	180 Ω ERD14V, " -----
R566	1-246-690	5.1 k Ω ERD14T, " -----
R601	1-246-641	47 Ω ERD14T, carbon -----
R602	1-248-703	18 k Ω ERD14V, " -----
R603	1-248-697	10 k Ω " , " -----
R604	1-248-666	510 Ω " , " -----
R606	1-248-673	1 k Ω " , " -----
R607	1-248-697	10 k Ω " , " -----
R608	1-248-697	10 k Ω " , " -----
R609	1-248-732	300 k Ω " , " -----
R610	1-248-669	680 Ω " , " -----
R611	1-248-681	2.2 k Ω " , " -----
R612	1-248-675	1.2 k Ω " , " -----
R613	1-248-640	43 Ω " , " -----
R614	1-248-682	2.4 k Ω " , " -----
R615	1-248-688	4.3 k Ω " , " -----
R616	1-248-673	1 k Ω " , " -----
R617	1-248-677	1.5 k Ω " , " -----
R618	1-248-686	3.6 k Ω " , " -----
R619	1-248-673	1 k Ω " , " -----
R620	1-248-658	240 Ω " , " -----
R621	1-248-697	10 k Ω " , " -----
R701	1-248-677	1.5 k Ω ERD14V, carbon -----
R702	1-248-673	1 k Ω " , " -----
R703	1-248-694	7.5 k Ω " , " -----
R704	1-248-682	2.4 k Ω " , " -----
R705	1-207-061	5 Ω RW1/4RL, wire wound -----
R706	1-248-665	470 Ω ERD14V, carbon -----
R707	1-248-680	2 k Ω " , " -----
R709	1-248-680	2 k Ω " , " -----
*R710	1-248-651	120 Ω " , " -----
*R710	1-248-658	240 Ω " , " -----
*R710	1-248-662	360 Ω " , " -----
*R710	1-248-665	470 Ω " , " -----
*R710	1-248-680	620 Ω " , " -----

* Mark to be selected.

<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description</u>
CN2511	1-509-158-12	Connector, uhf -----
CN2901	1-508-389	Connector, 9P -----
S2501	1-513-217-22	Switch -----
S2502	1-514-324	Switch, TV/EXT -----
	1-403-351	Detector Block -----
	1-403-352	AGC Detector Block -----
	1-403-353	Video Detector Block -----
	1-501-092	Telescopic Antenna Ass'y -----
	1-502-169	Speaker -----
	1-506-108	Terminal Pin -----
	1-506-147	DC 2 Pole Plug, fuse holder -----
	1-507-134-21	Connector, 9 pole (female) -----
	1-507-174	Earphone Jack -----
	1-507-901	Jack Nut -----
	1-508-044-21	Connector, 9 Pole (male) -----
	1-508-082-21	4 Pole Plug (female) -----
	1-509-091-12	3 Pole Plug (female) -----
	1-513-216	Charging Switch -----
	1-514-457	Switch, pushbutton -----
	1-526-083-22	Socket, picture tube -----
	1-531-025	Selenium Rectifier, high voltage -----
	1-531-105	Selenium Rectifier, power supply -----
	1-532-130	Fuse 0.25 A -----
	1-532-201	Thermal Fuse -----
	1-534-502	Cord, power supply -----
	1-536-171	Terminal Strip; 2-7P -----
	1-536-191	Terminal Strip; 1-3P -----
	1-536-210	Terminal, 4 pole (male) -----
	8-731-209-99	Picture Tube (230DB4) -----